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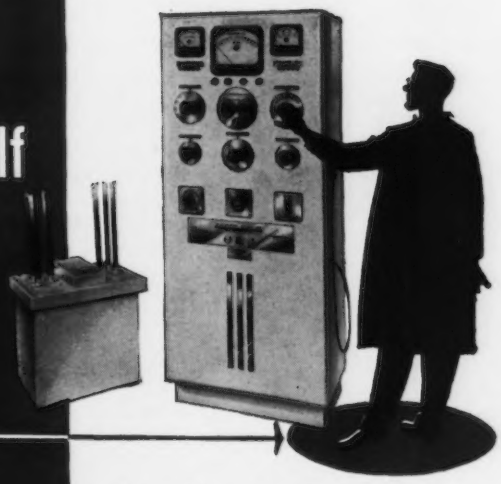

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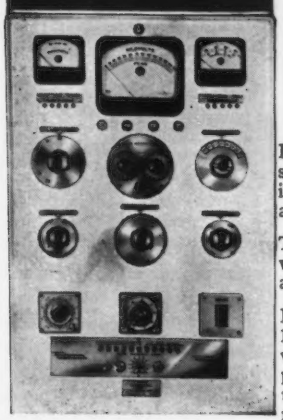

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News Items from the Provinces

ALBERTA DIVISION C.S.R.T.

CALGARY BRANCH

The members of the Calgary Branch celebrated the annual St. Patrick's festivities by a party at Francis Shaw's ranch at Midnapore. Meeting at the Colonel Belcher Hospital at 7.30 p.m., we were transported there by cars where Francis gave a royal welcome to all and the evening was off to a wonderful start. The guests enjoyed a variety of entertainment — canasta, dancing, etc. Following this, ravenous appetites were satisfied by a sumptuous lunch, after which the "fair" representation of technicians left for home — an evening well spent.

A review of the anatomy lectures by Dr. Bell is scheduled for the near future — so I imagine there will be many of those quick brush-ups (the night before, that it!)

Our bowling league is winding up for another season with only two more weeks before the all-important finals. To those who were not eliminated, we wish them the best of luck and may the "best team win"!

The March meeting of the Alberta Division of the C.S.R.T., Calgary Section, was held Tuesday, the twenty-eights, in the auditorium of the Colonel Belcher Hospital.

Our guest speaker for the evening was Mr. Hamblyn, of Canadian Kodak Co. Ltd. We owe Mr. Hamblyn a debt of gratitude, for, limited as this gentleman's timt must be, he never hesitated for a moment when approached regarding the presentation of a paper. The film flown here especially for the occasion, coupled with Mr. Hamblyn's talk, were thoroughly enjoyed by all. The picture took us on a complete tour of the Kodak plant. Words are quite inadequate when I say it was educational as well as very interesting. The film progressed with views and a running commentary of each super-clean department, from the crude material to the finished product. On completion of the reel, our speaker rounded out his talk with a discussion and hepful hints on darkroom technique. In closing, Mr. Hamblyn put forth a suggestion which has merit indeed — to incorporate into a student's curriculum perhaps a week of photography. This entails the taking of pictures, processing of same in solutions the students themselves had prepared with the natural mistakes of developing that one is likely to make. The purpose of the scheme — to bring home forcibly that dark room procedure is an integral part of the finished radiograph and not just a needed accessory.

A vote of thanks was expressed in appreciation of the fine talk by Mr. H. M. Welch, our C.S.R.T. President. He commented on the fact that the attendance of the members left a great deal to be desired — which is very true. Let's pull together, Calgary.

Miss Shaw was also tendered thanks for the very fine "do" held at her home in Midnapore. Everyone had a truly wonderful time.

The remainder of the business was conducted with promptness and despatch.

A motion by Miss Hendry adjourned the meeting for the evening.

—LORRAINE SHEARER, R.T.,
Sub-Editor.

EDMONTON BRANCH

The regular meeting of the Edmonton Branch was held at the Misericordia Hospital on February 6th, 1950. In addition to our usual business we were most pleased to have a report from Jack Bateman, Chairman of the Convention Committee. Arrangements have been made to told the annual Alberta Convention at the MacDonald Hotel, Edmonton, on June 2nd, 3rd and 4th. Any technician, Associate Member or those interested in our work will be most welcome to join us at this time.

The social committee arranged a small party to introduce our new members and lunch was served after.

The Ways and Means Committee presented a Valentine's Dance at Kingsway Legion Hall on February 18th, 1950. In addition to a very successful dance a small raffle was held. The proceeds of the evening were in aid of the Convention.

(*Continued on page* 52)

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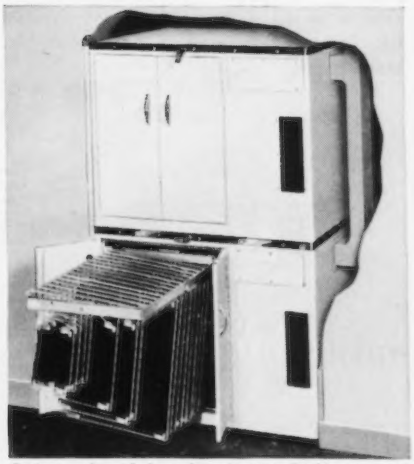

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(*Continued from page* 50)

On March 6th we again met at the Misericordia Hospital and have made it our permanent meeting place. Prior to our general meeting, Dr. Gordon Ellis gave us an interesting lecture on urology. He explained the pros and cons of pyelograms, intravenous and retrograde, and also the necessity of radiography in urological work. His talk was illustrated by numerous x-ray films and slides shown by Dr. Metcalfe.

Student technicians are very appreciative of the lectures in physics given once a week by Mr. Ginger of the X-Ray Division of Ferranti Electric Ltd., and those in Therapy given by Dr. Malcolmson.

—MARIE LACEY, R.T.,
Sub-Editor.

BRITISH COLUMBIA DIVISION C. S. R. T.

The first meeting of the year was held on February 2nd to ratify and approve the new by-laws of the Society. The Society has expanded and now boasts two branches, one in Vancouver and one in Victoria. This has entailed a great deal of work and study. However, it is gratifying to note that much progress has been made. The chief officers of the Society, after the election, are as follows:

BRITISH COLUMBIA SOCIETY

President: Mr. S. Mel Smith, Vancouver, B.C.

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VICTORIA BRANCH

President: Mr. F. C. Barker.

Vice-President: Rev. Sister Mary Loretta.

Secretary: Mrs. E. McDonald.

Treasurer: Miss Shirley M. Cameron.

VICTORIA NEWS

This branch held a meeting in February, at which time four members of the branch gave short talks on various subjects. The speakers were Miss Paterson, who spoke on what was expected from the technician. Rev. Sister Loretta described conditions in a busy x-ray department and outlined the work entailed with the B.C. Hospital Insurance. Mr. Len Ludwig spoke on what students are expected to cope with in hospitals and private offices. Mr. Jerry Saunders gave a description of the work in a Veterans' Hospital. This proved to be a very instructive and enjoyable evening.

On March 2nd Mr. Gordon Hamblin of the Eastman Kodak Co. Ltd. gave a very interesting talk on Dark Room Procedure. At the same time he showed a movie of the making of x-ray film at the Eastman Factory. This was a very enlightening and thoroughly enjoyable insight into one section of this great enterprise and was greatly enjoyed by all who attended. Mr. Hamblin was accorded a hearty vote of thanks by Mr. Len Martin, who expressed the delight of the members for this inspiring address.

On March 2nd the Vancouver Branch were the guests of the General Electric X-ray Corporation in the beautiful new quarters of the General Electric Corporation. On this occasion we had the very great pleasure of listening to Mr. E. Dale Trout, who spoke on his recent visit to Britain and Sweden. Mr. Dale Trout is a photographer of no mean ability and he illustrated his lecture by means of colored photographs which he had taken during his journey. Many of the pictures were really beautiful and showed many of the largest hospitals over there. It was interesting to hear that the largest hospital in the world is situated in Stockholm. It is always a delight to listen to Mr. Dale Trout and on this particular occasion he was at his wittiest best. Mr. Bob Olafsen conveyed the thanks of the members to Mr. Dale Trout and to the company for arranging this meeting. We were afterwards treated to tasty refreshments, which were also provided by the company.

(*Continued on page* 55)

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NEWS ITEMS FROM THE PROVINCES

(*Continued from page 52*)

On March 9th Dr. W. A. Whitelaw, one of Vancouver's pioneer radiologists and most distinguished medical men, addressed the members on Chest Radiography. Dr. Whitelaw was most descriptive and he outlined the importance of good films for the purpose of diagnosis. He pointed out that a difference of two to four milliampere-seconds can make all the difference between a good or poor diagnostic film. In his opinion it is essential that rapid exposures be made in order to still the action of the heart. A good chest film should show the first three dorsal vertebrae. If this is done then the remainter of the film is of good quality. Dr. Whitelaw illustrated his lectures by means of diagrams and also exhibited several types of chest films which were of excellent diagnostic quality. Mr. Bill Stirling introduced the speaker and at the end of his interesting address Mr. Howie Tait expressed the thanks of the branch in appropriate words. Mr. Gordon Hamblin donated six rolls of films to be raffled for the convention fund and these were won by Miss Joan Bell. Excellent refreshments were served at the conclusion of an enjoyable evening.

For the benefit of members it should be pointed out that the meetings of the branches are as follows. Victoria Branch the first Thursday in the month and the Vacouver Branch the second Thursday in the month.

The Convention Committee is working very hard to make a success of the meeting to be held in September. Some laxity has been noted among our members when asked to lend their assistance. It is the desire of the committee that this convention be a credit to our Society and this can only be achieved by the support of ALL members. Please, please, if you are asked to help out in any way, try to remember how important it is to the committee to have a cheery YES in reply to such a request!

HEAR AND THERE

Watch for the big Fashion Show which is being put on by the Society in May. This is going to be an outstanding event and the funds raised are for the convention. Even if you can't go—at least buy a couple of tickets, or even more if you feel enthusiastic.

This is not so much a C.S.R.T. convention as it is yours. Co-operation and support are the two important words as far as the B.C. members are concerned.

Mr. Jack Edwards of the Vancouver General Hospital staff, who had a serious operation a few weeks ago, has returned home and is making good progress. Our best wishes are hereby extended for a complete and full recovery.

There are no marriages or engagements to report at this time. Either our friend Dan Cupid has been snowed under or my bush telegraph is not working.

Spring officially arrived in Vancouver on March 20th. This is one year that we welcome its arrival with more enthusiasm than in former years. Eevrgreen Playground indeed!

New officers all over the place so we can look for many achievements this year. New brooms and new officers sweep clean. Guess we are just growing up.

Well, another issue of the magazine before the convention. Watch for news and announcements in Grid Lines and in the daily papers.

—W. Q. STIRLING, R.T.,
Sub-Editor.

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The Focal Spot

Journal of the Canadian Society of Radiological Technicians

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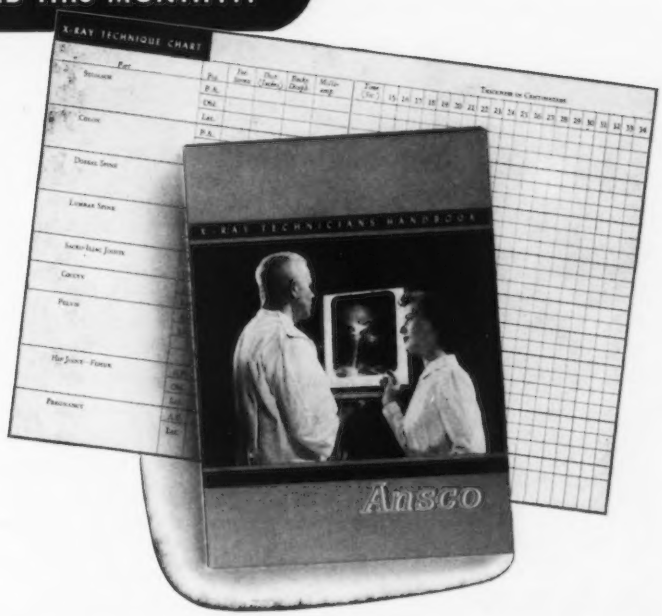

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Volume 7 TORONTO SPRING 1950 *Number 2*

Cerebral Angiography

By JEAN HARRIS, R.T.
Montreal Neurological Institute, Montreal, Quebec

RADIOGRAPHY of the skull as an aid to neurological diagnosis has been common practice for many years but, until 1916, when Dandy first used air in the ventricular system, such examinations were somewhat limited in value for the localization of brain tumours. Then in 1927 Egaz Moniz of Lisbon began experimenting with contrast media in the cerebral vessels. By the 1940's angiography had come into its own as a radiographic procedure of definite importance. Cerebral angiography may be described as "The radiographic demonstration of the vascular structures of the brain after they have been filled with radiopaque material." It is used frequently in cases of suspected tumour as a complement to pneumo-encephalography or when such examinations are incomplete or contra-indicated. In cases of aneurysm or vascular tumour it is without rival.

The part you, the radiographer, are to take in this examination, is what I wish to stress here; but a thorough understanding of the complete procedure is necessary for good team work.

Cerebral arteriography may be performed percutaneously or by operative exposure of the artery in the neck to be injected. The contrast media used is most commonly 20% thorotrast or 35% diodrast. The former is mildly radio-active and is used in limited quantities, as it is stored for life in the body. On the other hand it produces no pain upon injection, but diodrast frequently does. This burning pain in the head is one of the causes of movement on the part of the patient during exposure.

It is necessary to test the patient for sensitivity to diodrast before preparing the patient for the arteriogram. At the Montreal Neurological Institute a subcutaneous injection of diodrast is used for this purpose.

Cerebral angiography has been used at the Montreal Neurological Institute since 1936 and is carried out as follows:

The method of injection, the site of injection (i.e., which branch or branches of the carotid arteries) and the type of contrast medium to be used are of course decided upon by the neurosurgeon. If the operative method is to be used the dissection is done in the O.R. (conveniently located on the same floor as the x-ray department) and the patient is transferred to the x-ray table when the artery is exposed and ready for injection. It must be appreciated that the x-ray room should be clean and all apparatus near the patient (that is, the x-ray tube, the head bucky, etc.) must be wiped clean with some antiseptic solution. Technicians should wear O.R. caps and masks as in any radiographic work done in the operating room.

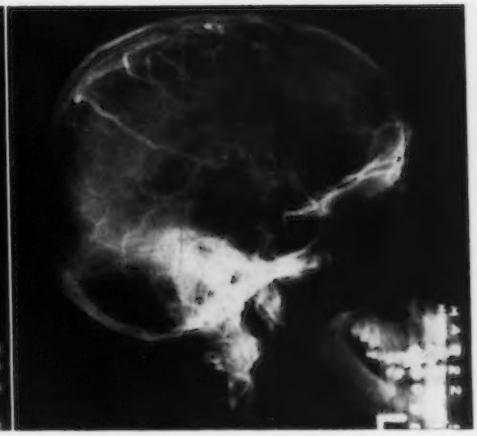
Our equipment includes a head bucky (with a mechanically operated bucky trip) on a flat top table, a sponge rubber mattress for the comfort of the patient, a rotating anode tube with suitable cone. The four cassettes are permanently marked 1, 2, 3, 4 with opaque markers on the tube side. The first is placed in the head bucky tray and the others are placed in order to one side ready for use. The head bucky is raised at the top edge by a wooden block to form a 15 degree angle with the table top. Sandbags are placed under the mattress at the position of the shoulder on the side to be examined to lessen the pull on the neck when the head is rotated to the lateral position. (Fig. 1.) The side to be injected is away from the film to simplify the puncture of the artery. When A.P. films are to be taken as well as Laterals it is an easy matter to remove the sandbags and turn the head slowly face-up. The 15 degree angle of the head bucky helps to place the patient in a fairly true A.P. position without pushing the chin too far down and hindering the surgeon. (Fig. 2.)

FIG. 1. Lateral position as used in cut-down method. Note sandbags under mattress. The needle is taped to the neck for demonstration purposes to show site of injection.

With the head in position, well secured with head clamps and in some cases a strip of reversed adhesive across the head as an added precaution, the surgeon punctures the artery and begins the injection. At the moment when he has sufficient diodrast injected, the doctor signals by spoken command for the technician to begin the series of films. It requires considerable dexterity to change the cassettes quickly enough to make the exposures five seconds apart. With practice a team of two technicians can get consistently good films. Technician No. 1 removes the cassette after the exposure is made and Technician No. 2 places the next cassette in

FIG. 2. A.P. position as described in this article. The accompanynig photos were taken to illustrate the positions only and are not actual arteriogram patient.

Film 1. Normal arteriogram lateral.



Film 2. Phlebogram 5 seconds after film 1.

Film 3. A.P. arteriogram, same patient.

Film 4. A.P. phlebogram 5 seconds after film 3.

the bucky tray and makes the exposure.

Two injections are made for each position to allow for stereoscopic views — a total of four films. Two films at 0 and 5 seconds after the signal from the surgeon for the first injection, and the same repeated for the second injection after shifting the tube to stereoscopic position. This will give stereoscopic views of arteries and veins.

The exposure is made with slightly higher K.V. than routine skull technique to allow for visualization of the carotid artery through the dense bone of the base of the skull. The following technical factors are used:

Lateral: 75 K.V., 100 M.A., 3/10 sec., 36" dis.
A.P.: 85 K.V., 100 M.A., 3/10 sec., 36" dis.

The short exposure time is of double value as it permits more rapid changing of films and lessens the possibility of blurring of the image due to movement on the part of the patient.

The percutaneous method differs from the above in that the patient comes directly to the x-ray department from the ward and the arterial puncture is made under local anaesthesia, with the patient's head in A.P. position. It is easily understood that turning the head to lateral position after the puncture has been made could cause the needle to become dislodged from the artery. Therefore we make our lateral projection in a brow-up position, placing the film and Lysholm grid at the side of the patient's head. (Fig. 3.) The A.P. films are taken in the manner described for the cut-down method. To arrive at this position, Technician No. 1 holds the head VERY securely while Technician No. 2 removes the pad from under the patient's head and places the wooden block under the bucky edge which

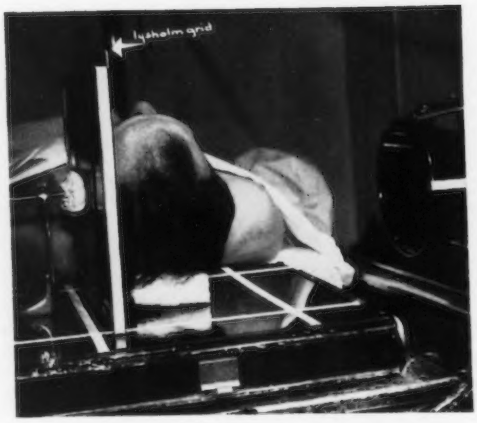


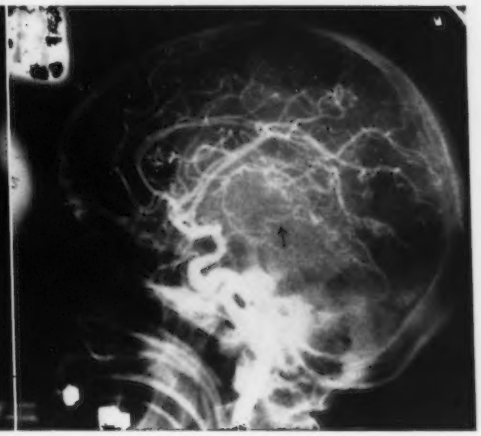
FIG. 3. Brow-up lateral as for percutaneous arteriography.

raises the bucky to meet the head as in Fig. 2. Once more may I stress that the position of the head remains constant and the equipment only is moved so that the needle is not disturbed. In percutaneous arteriography the needle is kept in the artery while the position of the x-ray tube is being changed. The surgeon keeps up a constant flow of saline solution to keep the needle free of blood, to prevent clotting, thus permitting A.P. and lateral film series with a single arterial puncture.

That part of the x-ray room above the patient's chin is technicians' territory, the rest of the room is left to the O.R. team to use as they wish. This avoids our accidentally contaminating the sterile field and gives us ample room to change cassettes and move x-ray tubes, etc.

We have also tried, recently, an automatic serialographic device which is very compact and is consistently accurate in its timing. This machine is capable of making exposures less than one second apart and can be operated from the control panel of the x-ray machine with which it is used. Until this machine is operating satisfact-

Film 5. Lateral arteriogram showing aneurysm.



Film 6. Lateral arteriogram showing glioblastoma. Note tumor vessels.

orily we will continue to use the first-described method which, while adequate, has its drawbacks. It necessitates keeping two technicians within scatter radiation area, and the manual method of changing cassettes is not as consistent as an electrical device. Still, I think we will miss the human element in years to come when electronic devices replace us to a large degree. It may be more accurate but it will be less challenging to the technician. This procedure, while exacting in preparation and execution is nonetheless satisfying to the radiographer, for this is one examination in which a technically good radiograph is still a pretty picture to delight the non-radiologist viewer.

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TWENTY-SECOND ANNUAL CONVENTION A.S.X.T.

The American Society X-Ray Technicians cordially invite their Canadian friends to their Convention, which will be held from May 28th to June 2nd at the Deshler-Wallick Hotel, Columbus, Ohio.

Radiography of the Intercondyloid Fossa

A Simplified Position

By BETTY BOYCE, Student Technician
The Halifax Infirmary, Halifax, N.S.

Illustrations by ISOBEL GOMEZ, Student Technician
The Halifax Infirmary, Halifax, N.S.

IN examination of the knee-joint, the technician is sometimes asked to demonstrate the intercondyloid fossa of the femur (Fig. 1) which does not show to advantage on the routine radiographs.

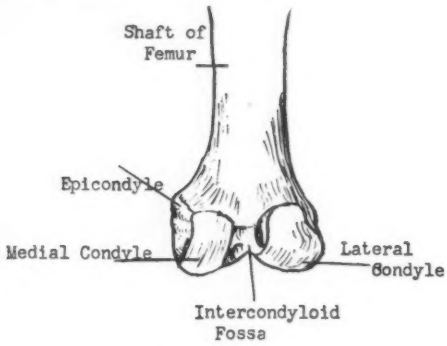

Fig. 1. Lower end of right femur (dorsal aspect).

In reviewing literature on the knee-joint recently, we noticed that the position used in this laboratory does not appear in the textbooks, nor as far as we could ascertain, in current literature. The articles studied, disclose two general methods, with variations, as follows:

(a) Beclare position: With the patient in the supine position, the knee is flexed and the film is placed in contact with the posterior surface, supported on sandbags. The central ray is directed through the joint space, perpendicular to the long axis of the tibia (Fig. 2). McNeill [1] uses a 5 x 7″ cassette placed crosswise. Merrill [2] recommends the use of a curved or flexible cassette for better contact. Brother

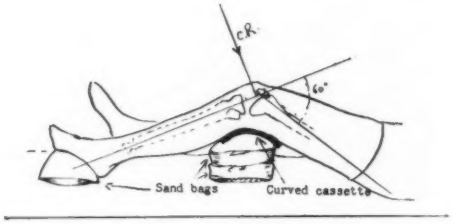

Fig. 2. Modified anteroposterior projection.

Dominic [3] has improvised a curved film-holder from two carboard chemical drums, one slightly smaller than the other.

(b) Holmblad position:[4] The patient kneels on the film, with the feet extending over the end of the table (Fig. 3). He leans forward, supporting the trunk on his hands or on a cushioned stool, so that the femora make an angle of 20° to the vertical or 70° to the horizontal. The central ray is directed vertically, through the apex of the patella. Runge has constructed a de-

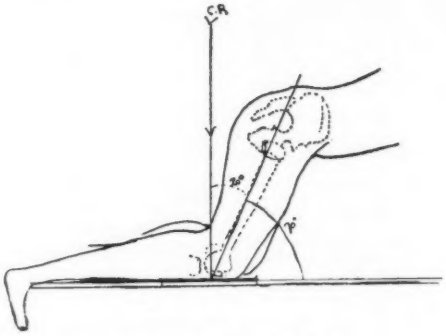

Fig. 3. Kneeling position (after Merrill).

vice with special angle-blocks for a similar position.[5] An interesting variation is described by Carter [6] of Australia. He uses a curved cassette and sandbags, but places the patient in a sitting position at the end of the table, with the lower leg dependent and the curved cassette under the bend of the knee.

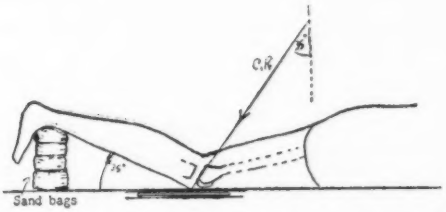

Fig. 4. A simplified position. May be used with or without Bucky.

The position used at the Halifax Infirmary is shown in Fig. 4. We believe that when several methods will give equal radiographic results, it is well to use that which causes least discomfort to the patient. The patient is placed in the true prone position with the affected knee over the mid-line of the table. A 6½ x 8½″ film is placed in the Bucky tray and centred 1″ distal to the lower end of the patella, to allow for caudad tilt of the tube. The leg is then flexed at the knee at an angle of 35° to the table-top, and the ankle is supported on sand-bags. The central ray is projected through the joint space, perpendicular to the long axis of the tibia, i.e., 35° from the vertical. Penetration factor is increased about 6 Kv. from that used for the anteroposterior projection.

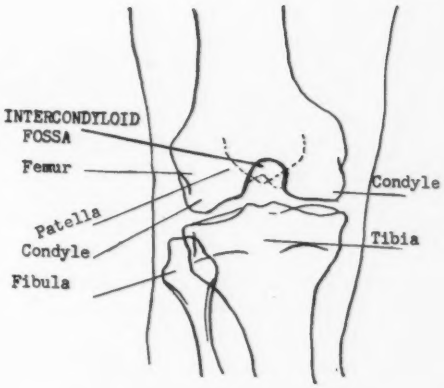

Fig. 5. Diagram of radiographic projection obtained. Width of the knee space will vary in proportion to degree of flexion of knee.

Conclusion: A simple method for examination of the intercondyloid fossa of the femur has been demonstrated. The main advantage of this position is the ease with which the patient can assume it.

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(4) Merrill, op. cit., Page 89.

(5) Runge, Ray K. (R.T.), "The Roentgenographic Examination of the Knee Joint"—THE X-RAY TECHNICIAN, Vol. 18, P. 97, Nov. '46.

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Radiography in a Contagious Diseases Hospital

By GEORGINA C. PHILLIPS, R.T.
Montreal, P.Q.

IN contributing an article to *The Focal Spot*, I thought possibly an account of x-ray work in a Contagious Diseases Hospital might be of value to "Focal Spotters" generally.

Although such hospitals have come a long way from the days when wards were sprayed twice a day with disinfectant, doctors went around in white surgical boots and nurses wore long flowing dresses, the fight against contagion and infection still goes on. But the commonsense methods now adopted, soap and water, fresh air and sunshine, together with the new wonder drugs are lowering the incidence of disease to the point where we can confidently look forward to an era when such dread diseases as tuberculosis will be wiped out altogether.

The definition of infection is, of course, the invasion of the tissues by pathogenic organisms. Each communicable disease is due to some specific organism or virus. The modes of spread are: 1, Direct contact, when carried from the patient to a susceptible person. 2, Indirect contact, when carried by a third person from patient to a susceptible person. If medical asepsis is not properly carried out, a cross infection may occur.

Bearing all this in mind and realizing that most of my work would be with very young children and adolescents, the ones most liable to infection, I felt that some definite plan should be worked out for the protection of all. It is not always recognized or sufficiently stressed, I think, that even in a general hospital, an x-ray department can be a source of contagion to a susceptible person, if commonsense rules of scrupulous cleanliness are not followed, during and after an examination.

As a start, I had a quantity of cotton bags made for the cassettes—these serve a dual purpose of protecting the cassette from contamination and at the same time providing a less chill surface for tender little bodies. These are particularly useful when x-raying is associated with nose and throat conditions or discharging ears. Also a brown paper bag is always kept handy for the disposal of soiled tissue. The nurse and baby are kept to one side of the table and all clothing removed is kept on that side on the clean sheet, so that the technician has an uncontaminated surface to work on. As the hands can be a means of transfer of casual agents, these are washed well after every examination, and all contaminated surfaces washed with green soap. The linen used is carefully rolled up with the clean side out. This applies to the handling of the sanitary paper for all chest work at the chest board. As the day's work may include such diseases as scarlet fever, chickenpox, measles, polio, etc., as well as tuberculosis, a definite system had to be worked out so that the cases would not overlap. It was therefore decided that as a general rule all the T.B. patients would be done in the morning and all airborne diseases such as measles at the end of the day. Between cases, the room is thoroughly aired, everything washed that is contaminated and a sufficient time allowed to elapse before the next case is brought down. In this way cross infection is kept to the very minimum. It will be seen therefore that a technician's role

in such a hospital carries with it a very great amount of responsibility.

Two years ago a fifty-bed unit for tuberculous children was opened, fulfilling a very great need in the city. As it was felt that the majority of these little patients spend many months and even years curing, everything has been done to make their stay not only a happy, but a profitable one. A school teacher, an occupational therapist and an art teacher keep their fertile little brains and hands employed, and some of their efforts in futuristic art would need a Salvatore Dali to identify! It is a happy, busy atmosphere, with laughter and smiles always on top. Once a week they have movies, and the trials and tribulations of Donald Duck always have a very appreciative audience.

As the majority of technicians get very little practice in the x-raying of small children and infants, perhaps a few ideas I have gleaned may be of value. Movement and lack of co-operation have to be anticipated, and the technician's reflexes have always to be one jump ahead of the baby. This only comes from experience, and as it was impossible for me to have two people to hold the children, we made use of a little chair with the legs cut off and a slot to hold the cassette for the most of the chest work. All babies, no matter how young, except those who are too ill, are done sitting up for chest examination. If the child cries, so much the bteter; the inspiration at peak can be caught much more easily. For positioning, using the chair set on the end of the x-ray table, the baby's legs are held firmly in position by the nurse's body standing in front of the child. The arms are raised above the head and head and arms held in one process. It is only for very difficult cases that we ever have to call for extra help.

In x-raying children, a very fast technique has to be adopted, with K.V. the variable factor. It is a very good idea to have a few washable toys around, and it is amazing what a pig that squeaks will do under certain circumstances. One child, with the reputation of being impossible to handle, now lies down like the proverbial lamb, clasping in one hand a duck that rattles, and in the other a bird of dubious ancestry, that squeaks. Another means of keeping their interest is to bring the darkroom clock in where they can watch the hands go round and wait for the bell to ring!

In closing, I would say, that the risks a technician runs in a hospital such as ours, where to be forewarned is to be forearmed, are less than that which would probably be encountered in a stuffy, airless bus, or eating from improperly washed dishes in a restaurant.

There remains a great need for education of the masses in healthful living. As the masses are made up of individuals it is up to each and every one to do their part in prevention work. The overcrowding of families, which is such a big factor in the spread of disease, careless health habits, etc., can only be overcome if the individual fights for the proper legislation and educational programmes he has a right to demand, not only for himself but for his children.

Honours to a French Canadian Radiologist

Un traitement hormonal du cancer.
Nouvelle théorie, exposée par le Dr. Lionel Lafleur à l'Université de Paris.

Diplômé de la faculté de médecine de Paris, le troisième Canadien français depuis les quinze dernières années, le Dr. Lionel Lafleur a reçu les félicitations du personnel de l'Hôpital Saint Joseph de Lachine.

Le banquet annuel, offert par les RR. SS. de la Providence aux membres du bureau médical de l'Hôpital, comportait une manifestation d'amitié au Dr. Lafleur pour le brillant succès qu'il vient de remporter par l'obtention du diplôme de radiologie et de radiothérapie de l'Université de Paris.

Brillantes études médicales

Le Dr. Lafleur est membre de la Société de radiologie de France avec médaille de bronze, membre de la Société canadienne-français d'electrology et de radiologie médicale et membre de la Canadian Association of Radiologists.

Boursier du gouvernement de la province, en 1946, le Dr. Lafleur a passé deux ans, en France, d'où il est revenu avec les diplômes de radiologie, de physiology, de gynécologie, de la faculté de médecine de l'Université de Paris.

Nommé chef de service de radiologie de l'Hôpital Saint-Joseph de Lachine, à son retour au pays, le Dr. Lafleur avait obtenu, l'automne dernier, un congé de deux mois pour retourner en France y soutenir une thèse sur les méthodes nouvelles du cancer commun aux femmes et sur les symptômes et manifestations de ce cancer.

Invité à communiquer aux convives la théorie, exposée dans sa thèse sur l'évolution du cancer ches la femme, le Dr. Lafleur s'est déclaré fort touché de cette impressionnante manifestation d'amitié de la part de ses confrères.

Enthousiaste de la médecine française

Le Dr. Lafleur encourage tous les jeunes médecins qui veulent se perfectionner en radiologie à aller étudier, en France, qui ne le cède en rien à aucune autre nation, et continue à faire les recherches les plus importantes dans cette science. Les Français, bénéficient beaucoup de leur voisinage avec la Suède et la Grande-Bretache. L'accès des hôpitaux de France pour un étranger est plus facile que partout ailleurs, surtout pour les Canadiens.

Dans sa thèse, le Dr. Lafleur soutient que l'évolution du cancer de la région de la poitrine chez la femme, peut être arrêté par l'utilisation des hormones du sexe opposé, et inversement on peut arrêter l'évolution du cancer de la prostate chez l'homme par l'utilisation des hormones féminines.

A hormone treatment of cancer.
New theory is set forth by Dr. Lionel Lafleur to the University of Paris.

A graduate of the Faculty of Medicine of Paris, the third French-Canadian to achieve this honour in the last fifteen years, Dr. Lionel Lafleur has received the congratulations of the personnel of the Hospital of St. Joseph, of Lachine.

The annual banquet offered by the Reverend Sisters of Providence to the members of the medical staff of the hospital was held as a tribute to Dr. Lafleur for the brilliant success that he has just achieved in obtaining the diploma of Radiology and of Radiotherapy of the University of Paris.

Brilliant Medical Studies

Dr. Lafleur is a member of the Society of Radiology of France with bronze medal, a member of the French-Canadian Society of Electrology and Medical Radiology, and a member of the Canadian Association of Radiologists.

Given a scholarship by the provincial government in 1946, Dr. Lafleur spent two years in France from whence he has returned with the diplomas of Radiology, Physiology and Gynecology of the Faculty of Medicine of the University of Paris.

Named chief of the service of Radiology of the Hospital of St. Joseph at Lachine on his return to the country, Dr. Lafleur obtained last autumn a leave of two months to return to France, there to prepare a thesis on the new methods of treatment of cancer common to women and upon the symptoms and manifestations of this cancer.

Invited to communicate to the guests the theory presented in his thesis upon the evolution of cancer in women, Dr. Lafleur declared himself greatly touched with this impressive expression of appreciation on the part of his confreres.

Enthusiast of Medicine in France

Dr. Lafleur encourages all young medical men who wish to specialize in Radiology to go to France to study, as training there shows precedence to that of any other nation, and France continues to make most important research in that science. The French profit much by their proximity to Sweden and Great Britain. Access to the hospitals of France for a stranger is simpler than elsewhere, above all for the Canadians.

In his thesis Dr. Lafleur put forth that the evolution of cancer of the region of the breast of women might be arrested by using the hormones of the opposite sex, and inversely one might arrest evolution of cancer of the prostate in the male by using feminine hormones.

One of the principal instigators of this new theory, said Dr. Lafleur, is Professor Antoine

L'un des principaux instigateurs de cette théorie nouvelle, nous dit le Dr. Lafleur, est le professeur Antoine Lacassagne, directeur de l'Institut du radium de Paris.

Centre médical bien organisé

Dans son allocution de remerciements, le Dr. Lafleur s'est déclaré heureux de souligner le sens profondément hospitalier des RR. SS. de la Providence et leur très louable largeur de vue dans leur soin à fournir aux nombreux hôpitaux qu'elles dirigent, tout le matériel scientifique le plus moderne et le plus apte à soutenir la lutte contre la maladie.

Le Dr. Lafleur a rappelé le plus que le service des rayons X de l'Hôpital St-Joseph de Lachine, possède de très nombreux appareils, dont la qualité et la puissance en font l'un des hôpitaux des mieux équipés de toute la province.

En terminant, le radiologue réputé affirme que la clientèle de l'Hôpital bénéficie des services médicaux que l'on trouve dans les centres les mieux organisés.

Lacassagne, Director of the Institute of Radium of Paris.

The Medical Centre Well Organized

In his expression of thanks, Dr. Lafleur declared himself happy to state his profound sense of gratitude for the hospitality of the Reverend Sisters of Providence, and commended them for their very praiseworthy breadth of sight in their wish to furnish to the numerous hospitals which they direct all the most modern scientific material and that best suited to further the struggle against disease.

Dr. Lafleur recalled that the radiological service at the Hospital of St. Joseph at Lachine possesses apparatus, the quality of which has made it one of the best equipped hospitals of the whole province.

In conclusion, the radiologist repeated his statement that patients of the hospital benefit by a medical service usually associated only with the larger medical centres.

—Translated by M.F.C.

Simple Facts about Bucky Diaphragms

By C. R. BOND, Australia

Certain features are common to most Bucky Diaphragms, such as:

Manual and Magnetic Releases.

Electrical interlocking for timing of the x-ray exposures.

Self-centering cassette trays and cassette locking devices.

All buckys will operate in the horizontal, vertical or tilted positions so that the cassette is loaded from the side and the grid moves across the bucky laterally.

Modern buckys have fine line grids, usually 50 or more strips per inch.

It is a common thought that grid ratio means the number of strips per inch. This is not so.

Grid ratio is the height to width ratio of the interspace between lead strips. For example, if the lead strips are 1/16th apart and the space is 5/16" high, the grid ratio is 5 to 1.

In a 30" or 36" focal distance bucky, the ratio is about 6½ to 1.

In a 48" focal distance bucky, the ratio is about 8 to 1.

This gives greater filtering efficiency and the grid has more absorption.

Grid lines can be caused by x-ray surges, vibration due to unstable bucky mounting, synchronism or a combination of these factors.

Self-rectified or half-wave units are more likely to cause grid lines than full wave machines.

Fine grids are less likely to cause grid lines.

If the grid travel synchronizes with the exposure time so that at each impulse or when the wave is at its peak the grid strip is radiographed, the effect is stroboscopic and grid lines will result.

If the tube is off centre but at the correct distance, cut-off will occur and will be uniform over the whole film.

If the tube is off distance but properly centred over the bucky, cut-off or fading at the edges of the film occurs. Too close a distance gives more fading than a distance that is proportionately too great.

There is a new type of bucky in America known as a Reciprocating Bucky. It is energised from the control stand and needs no cocking. It has interchangeable grids of ratio 8 to 1 for ordinary diagnostic work, and 16 to 1 for new high kilovoltage techniques. At present, information on this bucky is rather limited, and we hope to hear more of it very soon.

Reprinted from The Radiographer (Australia)

VANCOUVER SKYLINE FROM THE HARBOUR.

The Convention City 1950

OBSERVATIONS BY W. Q. STIRLING, R.T.

I have been asked by the editor of this excellent journal to write an article extolling the wonders of Vancouver, the 1950 Convention City, and that is the reason you see this in print.

VANCOUVER is Canada's third largest city and has a population getting close to the half million mark. Most of the city is built on a peninsula while the residential areas spread in all directions. The climate is moderate which may account for the annual rainfall of approximately sixty inches. In summer it is an ideal holiday centre with many beaches for swimming and excellent facilities for boating and yachting. In winter, the snow covered slopes of the mountains, a short distance from the city, give ample scope for winter sports.

The headquarters for the convention is the Hotel Georgia which is in the centre of the city. All the principal shopping places are just a step from the door. The Hudson's Bay Company is one block from the hotel and Eaton's is only four blocks distant. There are many exclusive and beautiful shops ni all directions. To describe the city I shall use the hotel as our jumping-off place.

Leaving the hotel and travelling down Georgia Street to the west we arrive at the beautiful entrance to Stanley Park which we can reach in a matter of four or five minutes. Stanley Park is

VANCOUVER. LOOKING OVER THE CITY AND BURRARD INLET TO THE NORTH SHORE MOUNTAINS.

LION'S GATE BRIDGE. LOOKING TOWARDS THE NORTH SHORE FROM STANLEY PARK ENTRANCE.

renowned all over the world and is an unspoiled tract of land jutting out into English Bay with an area of over a thousand acres. The park is practically virfgin forest and some of the trees measure up to ten and fifteen feet in diameter. It is a favorite spot of all Vancouver people both in winter and summer. In a few minutes one is transported from the noise of the city into the almost cathedral-like silence of unspoiled nature. Trails of unparalleled beauty criss-cross the park in all directions. The drive around the outer driveway is five miles long and traffic travels one way only. At the entrance we pass Coal Harbour and at the exit we pass Second Beach and English Bay Beach which are thronged in summer by thousands of the city's population seeking relaxation by the placid waters of the Pacific Ocean.

Continuing our journey past English Bay we cross the Burrard Bridge and another famous swimming beach called Kitsilano Beach. We continue on and come to Spanish Banks on Marine Drive which is a long stretch of sandy beach extending for over two miles. After passing this beach we enter Marine Drive and drive past the beautiful grounds of the University of British Columbia. This is one of the finest sites for a University and the view looking over toward the North Shore Mountains is unsurpassed. Marine Drive extends for a distance of nearly twenty miles through quiet forest stretches and residential areas. The trip around the park and Marine Drive takes about two hours and is a lovely drive, providing the weather is nice, and we are hoping for the best when our visitors come here.

Starting out from the Hotel and again driving towards Stanley Park we cross the Causeway and veer to the left where we enter the road to the North Shore. This road is cut through the centre of the park and emerges at Lion's Gate Bridge. This bridge crosses the entrance to the harbour at a height of two hundred and fifty feet and is suspended on giant cables. At a distance the cables appear as thin as cobwebs but we find on arrival at the bridge that there are actually thirteen inches in diameter and are stretched over two huge pylons which are nearly four hundred feet high. The view of the harbour and the mountains from the bridge is breathtaking. Arriving at the North Shore wa can go either east or west. East to Capilano Canyon and its famous suspension bridge which is two hundred and fifty feet above the bed of the river. This is one of the beauty spots of Vancouver and is visited annually by thousands of persons. Travelling west we can drive up to Capilano Golf Club and British Properties. This is considered one of Canada's finest golf courses and was built by the Guinness Company of Belfast, Ireland. British Properties is a new residential district and reaches an elevation of two thousand feet and overlooks the harbour and almost the

entire city. Many beautiful homes are under construction here and when the plan is completed will be one of Canada's most beautiful residential areas.

Retracing our steps down the mountain we can drive west along the Marine Drive which passes prosperous West Vancouver. This lovely residential district is within fifteen minutes drive of the city centre and is composed of very lovely homes. The people of West Vancouver are justly proud of their village and the gardens here in summer are masses of colour and beauty.

We pass through West Vancouver and drive along Marine Drive which skirts the ocean for several miles. The road is well built and climbs up to a height of about three hundred feet above sea level. We pass Glen Eagles Golf Course and continue on to Horseshoe Bay where excellent fishing is to be had. Many beautiful salmon are caught in this bay and its surroundings and catches of fish weighing up to forty pounds each are quite common. Close to Horseshoe Bay is Whytecliffe Park. This lovely little park is an ideal picnic spot where excellent swimming and boating are to be found. A very fine meal can be obtained at Cliff House which overlooks Howe Sound at a height of over a hundred feet.

Many other drives of interest and beauty are to be found leading to the east. A drive through verdant Fraser Valley to Harrison Hot Springs is a delightful experience and every Sunday many motorists take this journey over well paved roads and through pleasant rural scenes.

As Vancouver is only thirty miles from the International Boundary thousands of our residents head south for change of scene and holidays. Seattle, which is the largest city in the State of Washington, is only four hours' drive from Vancouver and beyond that lies Portland and all the beauty of California. On holidays Vancouver is thronged with American tourists and a very friendly spirit is displayed between the two nations.

A visit to Vancouver will not be complete without a trip across the Gulf of Georgia to the Capital City of Victoria on Vancouver Island. Victoria is a five hour sail on palatial C.P.R. steamers and is well worth the time for a visit. Travellers from the east may travel to Victoria for the same price as to Vancouver and I would advise all our visitors to consider this when buying their tickets.

It is difficult to know where to stop when one is writing an article of this nature and perhaps one is apt to get carried away when writing about a city that has been home for many years. However, it is my candid opinion that visitors will not think my descriptions are too flowery in September, which is one of the nicest months on the coast.

That is a rough idea of the Ctiy of Vancouver and to find out more the only answer of course is to come and see it.

The B.C. Society is going all out to make this convention an event which will reflect credit to itself and a delightful and happy experience to those who attend this affair. Get your nickels and dimes gathered up, see your bank manager, see your rich Aunt Amantha, but for goodness sake come on out here and see what I have been talking about.

LOST LAGOON. SHOWING THE WILLOW TREES IN STANLEY PARK.

Make it a Vancouver Vacation this Year

EIGHTH ANNUAL CONVENTION, C.S.R.T., SEPTEMBER 6, 7, 8 AND 9

THE Convention will be held at the Hotel Georgia and reservations should be made as soon as possible. The rates are: Double bed with bath $6.50; twin beds with bath $7.00-$10.00. Mail requests for reservations to the Reservations Chairman, Miss R. A. Gable, 710 Seymour Street, Vancouver, B.C., enclosing $5.00 deposit.

Those giving technical papers are asked to communicate with Mr. Mel Smith, X-Ray Department, Shaughnessy Hospital, Vancouver.

Members contemplating showing film exhibits should write to Mr. J. Edwards, X-Ray Department, Vancouver General Hospital.

It is too early as this issue goes to press to give full details of the many and varied technical and entertainment features which the committee is arranging. Members will be notified as the program crystalizes and the Summer *Focal Spot* will carry a full program. However, one very prominent authority, Mr. E. Dale Trout, Technical Advisor, General Electric X-Ray Corporation, has been booked, as has Mr. George A. Jackson, Educational Instructor of the Picker X-Ray Corporation. It is also expected that Refresher Courses will be arranged, these being given at hours which will not interfere with the business or entertainment schedule. The persons who have agreed to supervise the Refresher Courses are of a high calibre and a very nominal charge will be made for these courses.

Entertainment is expected to reach a high level and special arrangements will be made for the entertainment of the wives of members while meetings are in progress.

Plan to combine your holidays with attendance at the greatest and grandest convention ever held by the C.S.R.T.

1950 CONVENTION COMMITTEE

Chairman: Mr. Mel Smith, Shaughnessy Hospital, Vancouver, B.C.

Co-Chairman: Miss P. Rogers, 1734 W. Broadway, Vancouver, B.C.

Finance: Mr. G. Lott, 755 W. 27th Avenue, Vancouver, B.C.
Mr. P. Bryden, M.I.R., H.Q.B.C. Area, Army.

Technical Papers and Program: Mr. S. Mel Smith, X-Ray Dept., Shaughnessy Hospital, Vancouver B.C.

Exhibits: Mr. J. Edwards, X-Ray Dept., Vancouver General Hospital, Vancouver, B.C.

Hotel Reservations: Miss R. A. Gabel, Medical Clinic, 710 Seymour St., Vancouver, B.C.

Housing (Rev. Sisters): Sister Superior, St. Paul's Hospital, Vancouver, B.C.

Transportation: Miss Gertrude Martin, 4335 Oxford St., Vancouver, B.C.

Decorations: Miss Margaret Gates, X-Ray Dept., St. Paul's Hospital, Vancouver, B.C.

Publicity: Mr. R. G. Olafsen, X-Ray Dept., Shaughnessy Hospital, Vancouver, B.C.

The Focal Spot

Journal of the Canadian Society of Radiological Technicians

EDITOR
LESLIE J. CARTWRIGHT, R.T.

Volume 7 TORONTO SPRING 1950 *Number 2*

Editorial Comment

THE SECRETARY-TREASURER SPEAKS

BY the time this reaches your eyes the 1950 Convention, or Annual General Meeting will be only a few months away. There are many things to be done before that time and I wish to take this opportunity of drawing one or two of them to your attention.

Before the Annual General Meeting you will all be called on to vote for a new President and a new Vice-President. It would be well for you to give this matter some consideration and thought. For your information all members of the Board of Directors are eligible to run for these offices. However, it is necessary that the written permission of such a director be received before his name can be placed on th ballot form.

It is th duty of the Programme Committee to get as many interesting speakers and exhibits as possible in order to make a success of the convention. I would therefore take this opportunity of making a direct appeal to all of you who may be considering sending an exhibit or giving a discourse or lecture to send this information as soon as possible to Mr. R. G. Olafsen, R.T., X-Ray Department, Shaughnessy Hospital, Vancouver, B.C. Don't be shy—here is an opportunity to become famous and get your name in lights—Safelights, that is!

The copies of the constitution will be going out from this office as soon as the list of names is received from the Registrar, Miss Creelman. I would suggest that all members outside of the dominantly French-speaking Quebec Society notify their Member-Society Secretaries if they wish to have the French instead of the English translation of the constitution.

There is another matter that I would like to bring to your attention at this time and that is with regard to any criticism any person may wish to make. The proper channel for any criticism is through your Member-Society representative on the Board of Directors who will see that any complaint is brought to the attention of the proper authorities to deal with such matters. It is a matter of some pride to me to be able to state that no matter is considered too trivial for discussion and action, and every member of the Board of Directors is ready and willing to lend whatever advice and assistance is required.

May I take this opportunity of extending best wishes to all the newly elected Member-Society Executive Officers for a happy and fruitful year.

—W. Q. STIRLING, R.T.,
Secretary-Treasurer.

The Journal of the C.A.R. Makes Its Debut

We would like to tender our congratulations to the Canadian Association of Radiologists and its Editorial Board upon the production of *The Journal of The Canadian Association of Radiologists*, the first issue of which was published in March. The first number comprises 28 pages bound in an attractive blue cover bearing the insignia of the C.A.R. There are five articles dealing with diagnostic and therapeutic radiology, one of them in French. We are glad to know that Canadian Radiologists now have a medium of their own in which to publish the results of outstanding work and wish them every success in their undertaking.

RESOLUTIONS

Resolutions for presentation at the Vancouver Convention should be sent in at once to the Chairman, Mr. R. E. Gore, St. Joseph's Hospital, Port Arthur, Ont. As far as possible these will be published in the Summer ediiton of The Focal Spot.

EDITORIAL COMMENT

ELECTIONS

Before long all ordinary members (which means all R.T.'s, as distinct from Student and Associate members) will be asked to cast their ballot for the three chief officers of the C.S.R.T., namely, the President, Vice-President, Secretary-Treasurer. Nomination for these offices are now being received. When you get your ballot sheet, USE IT. Give careful consideration to the names presented and then mail it without delay. If you put it away for further consideration later, you are almost sure to forget it until too late.

Manitoba Division C.S.R.T.

It is interesting to note that the Manitoba Society of X-Ray Technicians has followed the lead of the Alberta Society and has now become the Manitoba Division C.S.R.T. We are sorry to lose that fine looking buffalo standing nonchalantly on top an old Universal glass tube, but apart from that we feel that this is a move in the right direction.

ALSO "B.C. DIVISION, C.S.R.T."

Just as we go to press comes word that the British Columbia Society has also adopted the new nomenclature and will henceforth be known as the British Columbia Division, C.S.R.T., using the C.S.R.T. crest, similar to Alberta and Manitoba with the name of the Provincial Division added.

Our heartfelt sympathy goes out to the people of Manitoba in the terrible flood conditions they are enduring and particularly to our friends and x-ray colleagues in the stricken areas.

PRESENTATION TO SISTER ROSE AGNES

A pleasing incident took place at the Annual Meeting of the New Brunswick Society on May 26th when the Examining Board of the C.S.R.T. made a presentation to Sister Rose Agnes who, prior to her retirement from office recently, was for a number of years Secretary to the Board of Examiners. Sister Rose Agnes did excellent work in this capacity and messages of congratulations and thanks were read from all the Member Societies across Canada.

$2,740 AND BRIDE FROM OPERATION

"Vancouver, March. 15 (CP)—Complications which followed an operation on his big toe brought more than pain and suffering to Frederick H. Brooks. There was romance—and cash, too.

Brooks, a retired British Army major, to-day got a cash settlement of $2,470 from two Vancouver doctors. He alleged they had left part of a scalpel in his flesh after operating on a bunion on his toe.

The piece of metal was removed in Winnipeg following an x-ray. Brooks married the x-ray technician."

When we noticed the above item in the newspaper we started our Manitoba Sub-Editor on a bit of sleuthing to find out who the lady was. However, not much detective work was needed as Miss Coulson reports that the lady in question is, or was, Miss Verna M. Thompson and they worked in the same lab for several years. Miss Thompson was Manitoba Sub-Editor at the inception of *The Focal Spot* and for several years thereafter and was also Secretary-Treasurer of the Manitoba Society. We recall also that she had strong literary and journalistic leanings and contributed an excellent article to *The Focal Spot* in 1944 on "How to Prepare a Paper," which was afterwards reprinted in *The X-Ray Technician*. So, with her journalistic background, we hope Verna will not object to our dragging her private affairs into the spotlight in this manner! It appears that the radiologist Miss Thompson worked for had decided to retire and went to Vancouver to investigate its attractions, leaving Miss Thompson in charge of the office. While he was away Romance burst into the office and a month later Miss Thompson became Mrs. Brooks. Now the technician is in Vancouver and the doctor remains in Winnipeg. We know our readers join us in extending felicitations to Mr. and Mrs. Brooks and our best wishes for many years of married bliss.

We regret that the Bibliography was omitted from the end of Mr. Sage's article on Dental Radiography in the Winter issue. These are as follows: "Dental Radiography"—Albert W. Bradison, Berkeley, California. "X-Rays in Dentistry"—Eastman Kodak Co. Gray's Anatomy.

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Hopital Ste. Jeanne d'Arc, 110 Prince Arthur St., Montreal, P.Q.
SISTER MARIE MEDIATRICE
Hopital Hotel Dieu de Levis, Levis, P.Q.
SISTER MARIE SOLANGE
Sanatorium, Cooke, Trois Rivieres, P.Q.
SISTER MARY, R.N.
St. Joseph's Hospital, London, Ont.
SISTER MARY ALBAN
St. Joseph's Hospital, Edmonton, Alta.
SISTER MARY BERNICE, R.N.
St. Michael's Hospital, Toronto, Ont.
SISTER MARY BERNITA
St. Joseph's Hospital, Sarnia, Ont.
SISTER MARY CARMELA, R.N.
St. Michael's Hospital, Toronto, Ont.
SISTER MARY CELINE, R.N.
St. Mary's Hospital, Kitchener, Ont.
SISTER MARY CLOTILDE, R.N.
St. Joseph's Hospital, Hamilton, Ont.
SISTER MARY DAVID
Halifax Infirmary, Halifax, N.S.
SISTER MARY DYMPNA, R.N.
St. Joseph's Hospital, North Bay, Ont.
SISTER MARY EILEEN, R.N.
St. Joseph's Hospital, Hamilton, Ont.
SISTER MARY GERVASE
St. Mary's Hospital, 3830 Lacombe Ave., Montreal
SISTER MARY HILARION, R.N.
St. Francis General Hospital, Smiths Falls, Ont.
SISTER MARY IRENE, R.N.
St. Mary's of the Lake Hospital, Kingston, Ont.
SISTER MARY JOSEPHA
St. Joseph's General Hospital, Port Arthur, Ont.
SISTER MARY LEO
St. Joseph's Hospital, Hamilton, Ont.
SISTER MARY LORETTA, R.N.
St. Joseph's Hospital, Victoria, B.C.
SISTER MARY OF MERCY
Webster Hospital, Alberton, P.E.I.
SISTER MARY PATRICK
St. Joseph's Hospital, Peterborough, Ont.
SISTER MARY QUINCENTIA, R.N.
St. Mary's Hospital, 3830 Lacombe Ave., Montreal
SISTER MARY ROSAIRE
Providence Hospital, Moose Jaw, Sask.
SISTER MARY ROSARY
St. Eugene Hospital, Cranbrook, B.C.
SISTER MARY ROSELINA
St. Martha's Hospital, Antigonish, N.S.
SISTER MARY RUTH
St. Joseph's Hospital, Guelph, Ont.
SISTER MARY OF THE SACRED HEART
Hotel Dieu Hospital, Edmundston, N.B.
SISTER MARY SERAPHINE, R.N.
St. Joseph's Hospital, Parry Sound, Ont.
SISTER MARY THEOPHANE, R.N.
St. Joseph's Hospital, London, Ont.
SISTER MARY VICTOR, R.N.
St. Mary's Hospital, Kitchener, Ont.

SISTER MAURICE ALPHONSE
Hotel Dieu, 158 Bowen Sud., Sherbrooke, P.Q.
SISTER MELANIE, R.N.
St. Joseph's General Hospital, North Bay, Ont.
SISTER MIRIAM OF THE SACRED HEART
3001 South Michigan Ave., Chicago 16, Ill., U.S.A.
SISTER MONIQUE DE ROME
Hopital St. Joseph du Precieux Sang., Riviere du Loup, P.Q.
SISTER ROSE MARIE, R.N.
St. Joseph's Hospital, Port Arthur, Ont.
SISTER ROSE MARIE
St. Joseph's General Hospital, Blind River, Ont.
SISTER DE LA SAGESSE
Castor, Alberta
SISTER SANFORD
Hotel Dieu Hospital, Chatham, N.B.
SISTER ST. ALBERT
Hopital St. Francois d'Assise, Quebec, P.Q.
SISTER ST. ALBINA
Hospital St. Antoine, The Pas, Man.
SISTER ST. ALBERT
Hopital St. Francois d'Assise, Quebec, P.Q.
SISTER ST. BRUNO
Hopital St. Joseph, Rimouski, P.Q.
SISTER ST. CAMILLUS, R.N.
St. Joseph's Hospital, North Bay, Ont.
SISTER ST. CATHERINE
Hopital St. Joseph, Granby, P.Q.
SISTER ST. CYPRIEN
Hopital General des les Grises, 1190 Guy St., Montreal.
SISTER ST. GARBIEL, R.N.
General Hospital, Sault Ste. Marie, Ont.
SISTER ST. HELEN OF ROME
Misericordia Hospital, Winnipeg, Man.
SISTER ST. IRMA, R.N.
St. Joseph's Hospital, Little Current, Ont.
SISTER ST. JEAN DE LA CROIX
Hopital de l'Enfant Jesus, Quebec, P.Q.
SISTER ST. LEONARD DE PORT MAURICE
Hopital St. Vincent de Paul, Sherbrooke, P.Q.
SISTER ST. LOUIS DE FRANCE
Hopital Hotel Dieu, Quebec, P.Q.
SISTER ST. MICHEL
Hopital Ste Therese, Shawinigan Falls, P.Q.
SISTER ST. MICHEL DES SAINTS
Hopital St. Joseph, Trois Rivieres, P.Q.
SISTER ST. OSWALD, R.N.
Hotel Dieu Hospital, Kingston, Ont.
SISTER ST. RAPHAEL, R.N.
Hotel Dieu Hospital, Cornwall, Ont.
SISTER ST. REGINALD, R.N.
St. Joseph's Hospital, Port Arthur, Ont.
SISTER STELLA MARIE
Hopital Mont Ste Anne, Lachine, P.Q.
SISTER THERESE CARDIN
Hotel Dieu Hospital, Nicolet, P.Q.
SISTER VERONIQUE
Hopital Ste Croix, Drummondville, P.Q.
SISTER ZINK
Edson, Alberta

Associate Members C.S.R.T.

ALLAN, JAMES
X-Ray & Radium Industries, Regina, Sask.
BARKER, G. FRANCIS
No address given. c/o B.C. Society.
BLACK, H.
C.I.L. Ltd., 718 Granville St., Vancouver, B.C.
BRADLEY, R.
General Electric X-Ray Corp. Ltd., 41 Inglewood Place, Ottawa, Ont.
BRIDGEMAN, C. K.
Picker X-ray Company, Calgary, Alta.
BROWN, MEL
(Ferranti Ltd.), Apt. 302, 1 Claude Ave., Toronto, Ont.
CARLYLE, EARL A.
Picker X-Ray Co., 120 Fort St., Winnipeg, Man.
CONNELL, ROBERT S.
Picker X-Ray of Canada, Ltd., 1382 West Broadway, Vancouver, B.C.
DAVIDSON, R.
General Electric X-Ray Corp., Ltd., 118 Richmond St. W., Toronto, Ont.
ELSEY, ARTHUR
C.I.L. Plastic Div., 80 Richmond St. W., Toronto, Ont.
ENNS D.
General Electric X-Ray Corp., Ltd., Calgary, Alta.
FLANAGAN, JOHN S.
Ferranti Electric Ltd., Toronto, Ont.
GENERAL ELECTRIC X-RAY CORP., LTD.,
Hornby St., Vancouver, B.C.
HAMBLIN, GORDON W.
Canadian Kodak Sales, 3916 West 33rd Ave., Vancouver, B.C.
JACKSON, GEORGE
Picker X-Ray Co., 3443 St. Denis, Montreal, P.Q.
LESTER, GEORGE
No address given. c/o B.C. Society.
LEWIS, HENRY
Apt. 17, 3636 Decarie Blvd., Montreal, P.Q.
MAKI, M.
C.I.L., 80 Richmond St. W., Toronto, Ont.
MARTIN, W.A.
General Electric X-Ray Corporation, Ltd., Medical Arts Bldg., Winnipeg, Man.
McGIE, J.
Picker X-ray Company, Calgary, Alta.
McHENRY, ERNEST
C.I.L., 80 Richmond St. W., Toronto, Ont.
McLEAN, HARRY
X-Ray & Radium Industry Ltd., Toronto, Ont.
MERRIN, H. J.
C.I.L. Plastic Division, 3 Midland St., Winnipeg, Man.
MILLS, D. C.
X-Ray & Radium Industries Ltd., Calgary, Alta.
NEIL, G. A.
General Electric X-Ray Corporation, Ltd., Regina, Sask.
PARKIN, DOROTHEA
No address given. c/o B.C. Society.
PARSONS, LEONARD
114 Slater St., Apt. 3, Ottawa, Ont.
PEARCE, ALICE
6085 Sherbrooke St. East, Montreal, P.Q.
PETTY, WILLIAM
X-Ray and Radium Industries, Edmonton, Alta.
SEED, J.
Canadian Kodak Co. Ltd., Toronto, Ont.
STABLER, G.
Ferranti Electric Ltd., Vancouver, B.C.
STENHOUSE, GEORGE
Phillips X-ray, 149 Portage Ave., Winnipeg, Man.
TRILLER, MARK
Ansco Ltd., 60 Front St. W., Toronto, Ont.

Financial Statement

Statement of Revenue and Expenditures
for the period of June 3rd, 1948,
to May 31st, 1949.

EXHIBIT "A"

The Canadian Society of Radiological Technicians

BALANCE SHEET
as at May 31st, 1949

ASSETS

Cash in the Bank		$2,044.00

LIABILITIES

Accounts Payable—H. L. Warren		40.00
SURPLUS:		
Surplus Balance as at June 2, 1948	$ 787.20	
Plus: Excess of Revenue over Expenditures for the period ended May 31, 1949, as per Exhibit "B"	1,216.80	
		2,004.00
		$2,044.00

EXPENDITURE

Certificate and Examination Expense	$ 173.82	
Food Fund Allotments	419.20	
Postage, Telephone, Telegraph and Expense	103.56	
Stenography and Office Expense	237.48	
Audit Fees	40.00	
Officers' Honoraria and Expenses	309.02	
Domiciliation Fee	2.00	
Exchange and Bank Charges	21.12	
		1,306.20
Excess of Revenue over Expenditure transferred to Surplus Account. (See Exhibit "A")		$1,216.80

Note. This Statement should have appeared in the October, 1949, issue, but was inadvertently omitted. It is therefore published at this time.

EXHIBIT "B"

The Canadian Society of Radiological Technicians

STATEMENT OF REVENUE AND EXPENDITURE
for the period of June 3rd, 1948, to May 31st, 1949

REVENUE

Membership Fees—		
Ordinary	$1,792.00	
Associate	132.50	
		$1,924.50
Membership Society Fees		80.00
Examination Fees		153.15
Pool Fund		365.35
Total Revenue		$2,523.00

To the Executive and Members of
The Canadian Society of
Radiological Technicians.

I have made a detailed examination of the records and books of account of the Canadian Society of Radiological Technicians for the period from October 25th, 1948, to May 31st, 1949, and have obtained all necessary information and explanations pertaining to that period. With reference to the period from June 3rd, 1948, to October 25th, 1948, I have examined the books of account and records and I find them also properly maintained.

From the above mentioned examinations I have prepared:

Exhibit "A"—Balance sheet as at May 31st, 1949.

Exhibit "B"—Statement of Revenue and Expenditure for the period from June 3rd, 1948, to May 31st, 1949.

The attached exhibits present a true and correct view of the financial position of your Society as at May 31st, 1949, and also the operations for the period in question, to the best of my knowledge and belief and according to the information supplied to me and as shown by the books and records.

—HARRY L. WARREN,
Public Accountant.

MANITOBA BRANCH OF THE C.S.R.T.

The Banquet and Dance held in February to honour the 1949 Graduates was a tremendous success. The Hon. Ivan Schultz, Minister of Health, addressed the gathering, pointing out in his interesting speech that medical science has made more progress in the last 50 years than in the previous 25 centures. Dr. R. A. Macpherson, in his address to the graduates, outlined the history of the Manitoba Society, emphasizing that it was the first Society to be organized in Canada (1929). Corsages and certificates were presented to the graduates by Dr. MacPherson and Mrs. Backhouse. The balance of the evening was spent dancing to the music of Don Wright and his orchestra. A wonderful time was had by all and it is hoped this affair will become an annual event.

A large turnout of members enjoyed the February meeting held at the Misericordia Hospital. Many thanks to the staff of the x-ray department for the very pleasing refreshments served following the meeting. Dr. A. McCullough presented a brief paper titled, "Method of Positioning a Stomach," by which he showed a simple and accurate method of obtaining a stomach film without the aid of a fluoroscope. The "New Manitoba Health Plan" for the rural areas, which is sponsored by the Provincial Government, was explained to the group, by Mr. Wilf Allison, of Portage La Prairie. As of this meeting our Society will be called "Canadian Society of Radiological Technicians, Manitoba Division."

The second dinner meeting of the year was held in the Medical Arts Club Room, March 8th. Highlight of the evening was Dr. D. L. Scott's address, "Early Experiences in X-ray Work." Dr. Scott recalled many incidents to some of the oldtimers, and gave some of the younger technicians an idea of conditions about 30 years ago. Floods, breakage and bugs were part of the exciting life of the first T.B. survey crews. These early radiographers took pride in their work and in helping others and thus were instrumental in building up the present system of courses. Mr. A. MacKenzie of Deer Lodge Hospital gave an interesting paper on radiation. He explained how radiation changes cell structure as in cancer therapy and atomic bomb victims. Along this line, experiments are being conducted to change the cell structure of apple seeds and wheat grains to produce plants of superior quality. It is hoped that this paper will be published in The Focal Spot. Mr. Doern reported that the Convention plans are progressing favorably. A raffle has been arranged, the proceeds to help defray the Manitoba delegate's expenses.

On March 14th the staff of the Mount Carmel Clinic provided an interesting evening for a group of members who went to view the oldest active x-ray equipment in Winnipeg. Thanks to Mrs. Ross and to Mr. Doern who explained its operation.

Best wishes for a speedy return to better health is extended to Dr. McMillan, a longtime friend of technicians and our Society, who is ill at Vancouver. The Society also extends deepest sympathy to Dr. D. Wheeler, Mr. B. Merrin and to Mrs. Coulson on the recent loss of their mothers.

Congratulations to the former Betty Robb, a 1949 graduate, on her marriage to Mr. John English.

—CATHERINE COULSON, R.T.,
Sub-Editor.

NEW BRUNSWICK SOCIETY OF X-RAY TECHNICIANS

The regular meeting of the New Brunwick Society of X-ray Technicians was held in one of the nurses' classrooms of Saint Joseph's Hospital. The President, Mr. Darrell Liston, was in the chair. During the business meeting it was decided that a letter be sent to the Director

of Tuberculosos Rehabilitation of the Province, to the Department of Health and to all the hospitals in the province, stating clearly the qualifications for students for registration in the C.S.R.T.

Reports from the various committees for the convention were given and it was found that plans are being completed for the forthcoming Tenth Annual Convention of the New Brunswick Society, to be held on May 25th and 26th in the Admiral Beatty Hotel. The Nova Scotia Society has accepted our invitation to convene with us at that time, and enthusiasm runs high over the gathering.

The meeting was addressed by Dr. F. G. Knoll, who spoke on Sterility. After reviewing some anatomy of the female genital system, he explained, using some interesting diagrams, different procedures used in relieving mechanical obstruction in the Fallopian tubes; for example, the forcing of air into the canal and the injection of some radiopaque medium followed by radiography. The tiniest cyst, he explained, may cause temporary sterility until its removal. From here, the doctor continued with a most interesting discussion on electro-magnetic forces within the body, citing as an example the electric eel.

Imagine

Two or more times film output of even larger driers!

For full details see page 51

GENERAL ELECTRIC X-RAY CORPORATION LIMITED

MONTREAL TORONTO VANCOUVER WINNIPEG

Following the talk and the business the members adjourned to the cozy, lamp-lit waiting room of the hospital, lunch and cokes being the objective.

On the evening of January 21st, a meeting of the New Brunswick Society of X-Ray Technicians was held in the King's County Memorial Hospital in Sussex. The night was bitter, but nevertheless a good number of members found their way to the town of Sussex. The meeting was a lively one.

During the business session, plans were discussed for the forthcoming convention of the New Brunswick and Nova Scotia Societies in Saint John late in May.

Some of the visitors were taken on a tour through the hospital, becoming quite lost in and around the long corridors.

To the delight of all, Dr. E. A. Petrie of Saint Joseph's Hospital, Saint John, brought and showed some of his colored slides. Many pictures were of the beautiful Saint John River. Then Dr. H. R. Ripley, of Moncton City Hospital, was prevailed upon to give us an interesting time with views of parts of England, where he had visited not so long ago. The history which he supplied along with the views proved fascinating.

The meeting came to a pleasant close with the serving of lunch by several young ladies.

We are proud to announce that among the names of successful C.S.R.T. candidates for registry in the exams of November last, are those of five New Brunswick students. They are Mona Green, Saint John General Hospital; William Beatty, Lancaster Hospital, Saint John; Mary Gilbert, Victoria Public Hospital, Fredericton; Ester Michaelson, St. Joseph's Hospital, Saint John; and Thelma Amos, also of St. Joseph's. Miss Amos, we may add, has also been registered with the American Society.

—VIRGINIA STEVENS, R.T.,
Sub-Editor.

NOVA SCOTIA SOCIETY OF RADIOGRAPHERS

The Minutes Book tells us that we are Ten Years Old! (First meeting March 11th, 1940.)

Technicians in the Halifax district recently heard a most instructive talk on "Congenital Heart Lesions" by Dr. R. L. Saunders of Dalhousie University, Department of Anatomy. Those of you who attended the 1949 C.S.R.T. Meeting here will recall Dr. Saunders' "Bronchial Tree" lecture — and this was of equal quality. The talk, beautifully illustrated with slide projections and chalk drawings, covered the four commoner types of anomaly, namely (1) Coarctation of the Aorta, (2) Patent ductus arteriosus, (3) Septal defect, (4) Tetralogy of Fallot. It is this fourth type that causes the so-called "blue baby." After this excellent explanation of the anatomy and physiology of the heart from this rather novel approach, I am sure we all went back to heart radiography with an enlivened interest.

A short business session followed the lecture, with an early adjournment due to the state of the weather. Attendance was good, and we were happy to see among those present, Margaret Blandford, R.T., a charter member, who moved down from Truro last fall to work at the Halifax Tuberculosis Hospital. We missed "Chief" Stanford, recently transferred to H.M.C.S. "Naden," Esquimalt, B.C. No doubt he will, fortunate man, be attending the C.S.R.T. Convention in Vancouver. Mr. Perry had made the trip up from Bridgewater for the occasion.

During the month of February, Mr. George Debonnaire of General Electric X-Ray Corporation, Educational Department, gave several fine talks on physics and apparatus to students and staff of the Halifax Infirmary X-Ray Department.

We were sorry to hear that several technicians in Cape Breton have been off duty, sick, but hope they are all well and on the job again.

—SISTER EDMUND CAMPION, R.T.,
Secretary.

CAPE BRETON BRANCH

Since we last met our fellow technicians through the medium of The Focal Spot, many little inconveniences have hindered us from having our regular meetings.

We had planned for a meeting on February 27th. While deciding how many chairs to unfold for the evening gathering, alas! came the sad tidings that one by one our members were falling by the wayside victims to divers diseases.

The first on the list was our friend and Vice-President, Mr. Murdock MacLean. Dame Rumour had it that by some queer freak of nature he had contracted the mumps. While we were trying to get used to the idea that ill-luck was dogging our footsteps — Behold! another S.O.S. — Mr. MacLean's assistant, Miss Purvis, had caught the mump-bug and she too was laid low. Still pondering whether we should meet without our stricken brethren, another Flash was burning up the New Waterford-Sydney wires. "Rosalie Kiggins of the New Waterford General Hospital rushed to O.R. Emergency Appendix." Bq this time the remainder of us decided "The gremlins were agin' us, so we would wait until our co-workers recovered.

A meeting of the Cape Breton Branch of the Nova Scotia Society of Radiographers was held at the City Hospital, Sydney, on March 27th, 1950.

The President, Miss Greta MacPherson, was in the Chair and the usual business session was held. The most important subject for discussion was the proposed invitation to the Nova Scotia Society to attend the New Brunswick Annual Convention. While some felt strongly that the Annual Meeting should be held in our own Province, the majority were in favor of the New Brunswick plan, and felt that some definite decision about this matter could be settled at the N.B. Convention this year.

On behalf of the Cape Breton Society, we say, Thank you for your kind invitation. We feel certain those able to attend will benefit from your storehouse of enthusiasm and industry, in which, even down here where the East begins, we can visualize demonstrations, and papers which will certainly be an educational treat and a mental bath.

We all join in wishing you success, New Brunswick, and we are looking forward to seeing you all in May.

—SISTER JOHN OF THE CROSS, R.T.,
Sub-Editor, Cape Breton Branch.

ONTARIO SOCIETY OF RADIOGRAPHERS

FIFTEENTH CONVENTION
to be held June 9th and 10th.

The Ontario Society of Radiographers' Annual Convention is being held this year at the Royal York Hotel in Toronto June 9th and 10th. The Committee has been working diligently to make this meeting a huge success and plans for the forthcoming event are of greatest interest, education, and entertainment. We are fortunate this year in getting Johnny Cahoon, Jr., R.T., 1st Vice-President, A.S.X.T., Chief Technician and Instructor of X-Ray Technology, Duke University Medical School and Hospital, who will give a refresher course on "An Approach to Standardized X-Ray Technique and Its Problems in Formulating Roentgenographic Exposure Charts."

JOHN B. CAHOON, JR., R.T., will give a two-day Refresher Course at the O.S.R. Convention on "Formulating X-Ray Techniques."

Instructor, X-Ray Technology, Duke University Medical School and Hospital;
Chief X-Ray Technician, Clinic X-Ray Section, Duke Hospital;
Past President, North Carolina Society X-Ray Technicians;
Former Editor of State Society publication;
A.S.X.T. Counsellor for North Carolina;
1st Vice-President, A.S.X.T.
Author of twenty-one publications;
Received the second National Electrical Manufacturers' Association award, 1948;
Author, "Formulating X-Ray Techniques";
Instructor, A.S.X.T. Refresher Course at Minneapolis 1948, San Francisco 1949, Columbus, Ohio, 1950;
X-Ray Technician Consultant, Atomic Bomb Casualty Commission (Japan);
Chairman, Safety Committee, Junior Chamber of Commerce (Durham, N.C.);
Teacher, 5th Grade of St. Phillip's Episcopal Sunday School.

This Refresher Course is based on a college curriculum from the School of X-Ray Technology, Duke University Medical School, Durham, North Carolina.

Other lecturers who have consented to give papers are:

LEN QUARTERMAIN
Medical Art Dept., Sunnybrook Hospital
"Photography"

EDWARD GUNSON, R.T.
Medical Arts Bldg., Rochester, N.Y.
"Photo-Timer"

KEN HALL, R.T.
Ottawa Civic Hospital
"Training of Student Technicians"

HERBERT RALSTON, R.T.
St. Catharines General Hospital
"Photographic Action and the Latent Image"

LOU STANISZEWSKI, R.T.
Sunnybrook Hospital
"Film on the Cervical Spine"

GEORGE JACKSON
Picker X-Ray, Montreal
"Demonstration of a Simple X-Ray Unit"

ANNE HAYWARD, R.T.
Hamilton General Hospital
"Education"

The Brain Trust Quiz which proved so successful last year, will be repeated. Send in your question and let the experts handle it. Enclose in an envelope and mail to Mr. A. Stechyshyn, St. Catharines General Hospital.

One very important item is that of film exhibits. Each x-ray lab should be represented at the convention by a demonstration of its work. This is one way we can all take part in showing an interest in the success of our annual convention. Please send exhibits, mounted properly on cardboard to fit into a 14 by 17 view box, to Mr. Stechyshyn. Films will be judged by two Radiologists and a senior Technician, cash to the Group winners.

Send in your exhibits early to avoid undue confusion.

The annual business meeting will be held on Saturday, June 10th, at 2.30 p.m. The executive is appealing to all members attending the convention to be present at this meeting. This is our big opportunity to discuss old and new business and, most important of all, to elect the officers who will carry out the O.S.R. executive duties for 1950-51.

The opportunity for a gala time will be presented to us on the evening of Friday, June 9th, in the form of a "Millionaire Night." Various games will be set up and phoney money issued, prizes being given to the high winners of the night. A buffet lunch will be served to top off the evening. The annual dinner and dance will commence at 7.30 p.m. on Saturday, June 10th.

Please make your reservations now to avoid all possible let-downs later.

Drop a line to Mr. George Reason of the Medical Arts Building, Toronto, Ontario, stating dates for which you wish reservations. Mr. Reason will be pleased to make your accommodations.

—DAVID C. SAGE, R.T.,
Convention Chairman.

CENTRAL SECTION

The Niagara Peninsula meeting was held on March 18th, in the Nurses' Residence of the St. Catharines General Hospital, with some fifty technicians in attendance.

Mr. Tony Stechyshyn called the meeting to order and introduced Dr. G. T. Zumstein, who welcomed the technicians to St. Catharines and hoped that they would come back for another meeting at some future date.

Dr. D. MacDonald was then introduced and spoke on Choleography. During the course of his talk some very interesting radiographs were shown.

Mr. Dave Sage gave a brief outline of the coming Ontario Convention and the work that has been done to assure an excellent program.

The Sunnybrook movie, "Radiography of the Lumbar Spine," was then shown by Mr. Bob McCaw.

Miss Jane Martin and Mr. Dave Sage took turns in explaining methods of x-raying the different parts of the skull. This was intended to be a three-way demonstration but we were sorry to hear that Mrs. Mary Cameron was unable to attend because of illness.

During the skull demonstration it was necessary to have someone act the part of a patient. Tony Stechyshyn volunteered and made a very co-operative patient while having his head examined.

The demonstrations were freely discussed during the meeting. Such discussions have been questioned because of the delay they often cause. In your writer's opinion, such discussions show both interest and the willingness to learn on the part of the technicians and should not in any way be curtailed.

Mr. John Collins talked briefly on the poor returns of the ballots, WHICH ALL OF YOU RECEIVED, and hoped that such future balloting would receive better attention. He thanked Dr. Zumstein for his kind and able co-operation and the meeting was brought to a close.

LOOK

Units can be banked
to save space!

For full details see page 51

GENERAL ELECTRIC
X-RAY CORPORATION
LIMITED
MONTREAL TORONTO VANCOUVER WINNIPEG

Refreshments were then served and a vote of thanks was tendered to Miss H. Brown who so ably looked after this part of the program.

Walter Whitehouse, well known for many years for his excellent skull radiography at the T.G.H., has treked to California again. His many friends wish him the best of luck and are wondering whether the Western lure will "take" this time or whether Old Ontario will pull him back once more.

—MARK TRILLER, R.T.,
Sub-Editor.

EASTERN SECTION

The Spring meeting of the Eastern Section of the Ontario Society of Radiographers was held at 3 p.m. on April 29th, 1950, in the Veterans' Pavilion, Ottawa Civic Hospital, Ottawa, Ont.

Mr. K. E. Hall, Chairman, welcomed the members and guests. The minutes of the previous meeting, held November 12th, 1949, were read and adopted. No new business arose from the minutes.

Mr. Hall then introduced Mr. John Collins, President of the Ontario Society, who spoke a few words regarding the Annual Convention of the Society, to be held in Toronto in June.

The first speaker of the afternoon, Mr. Robert McCaw, of Sunnybrook Memorial Hospital, gave a very interesting paper on Radiography of the Gall Bladder. Mr. McCaw showed us several films, which demonstrated the advantage of taking views in various positions, in order to obtain a clearer outline of the gall bladder.

Dr. T. G. Stoddart, of the Department of Radiology, Ottawa Civic Hospital, very kindly arranged for us to see a recently produced sound-film on cancer, outlniing the work that is being done to discover its cause.

A sound-film entitled "Principles of Electricity" supplied by General Electric X-Ray Corporation, Montreal, Que., was shown. It proved very interesting to all and especially to the student technicians, who have been struggling with X-Ray Physics.

Mr. George Jackson, Technical Service Representative of the Picker X-Ray Corporation, gave a talk on "Diagnosing Film Complaints." His talk was accompanied by slides which demonstrated to us many of the difficulties which may be encountered in an X-Ray Department.

At the close of the meeting tea was served through the courtesy of the Ottawa Civic Hospital.

It was very encouraging to have such a good turnout at this meeting and we hope to see as many of our friends at the Fall meeting.

—K. E. HALL, R.T.,
Chairman, Eastern Section.

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Heavy Sterling silver 6.75

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St. Joseph's Hospital,
Port Arthur, Ontario.

Student members, as such, are not eligible for these pins or rings.

QUEBEC SOCIETY OF X-RAY TECHNICIANS

We had a very excellent meeting Monday evening, January 30th, at the Queen Mary Veterans' Hospital. Over fifty members were present. Perhaps more evening meetings would prove an asset to the Society. Anyway, it adds variety.

Dr. G. T. Adams, Radiologist, Queen Mary Veterans' Hospital, extended a welcome and apologized for not being able to serve refreshments—seems there is a shortage of dietitians at the Vets' hospital.

Giving great praise and credit to the physicists and pioneers in the field of x-ray, Dr. A. M. Edington, Radiologist at the Montreal General Hospital, told of the innumerable advancements made in Roentgen therapy. In both machines and applications progress is being made.

Stressing the need for consistent uniformity of technique in taking chest plates, Miss Donalda Campbell, R.N., R.T., went on to relate and illustrate the importance of her subject in industrial lung diseases. In these cases where repeated examinations are a "must," uniform technique is essential.

Following this, Mr. Picard, of St. Luke's Hospital, delivered his subject entitled, "Density, Contrast, Detail, Distortion."

Miss Violette read the report of the last meeting and since there was little else on the agenda the meeting was brought to a close. Before doing so, however, Miss Archambault and Mr. Cheffins announced that the Society would defray the cost of refreshments. Evidently, reservations had been made at a small French restaurant, "La Petite Chaumiere," only a few minutes' walk from the hospital. Yours truly didn't go but those who did enjoyed the treat very much.

There were many new faces at our meeting. Some of our fifteen new members must have put in appearance. Not a new face, but one which we haven't seen for some time was that of Marion Wheeler. After more than a year's absence Marion has returned to the fold. She evidently had had a marvelous time in South America but seems content to be back.

The last meeting prior to the Annual Provincial Convention was held in the Notre Dame Hospital, March 18th, 1950. A very interesting discussion was given by Dr. Jean Louis Leger, of that hospital. The subject of discussion was "Cerebral Angiography." "Arteriography," a very well prepared article, was delivered by Miss Friedman of Queen Mary Veterans' Hospital.

Good attendance was also evidenced at this meeting. After a short business period we visited the X-ray Department. Following this, coffee and sandwiches were served by the Sisters.

After a period of temporary duty in Chicago, Sister Miriam has returned to the St. Jean de Dieu Hospital. We are glad it was only a temporary move.

We are looking with keen anticipation to our Annual Provincial Convention in May.

NINTH ANNUAL CONVENTION

Registration got under way with a good crowd for the morning session of the Annual Convention held at the Windsor Hotel, Montreal, Saturday, May 6th, 1950.

Miss Madeline Latreille was the morning chairman.

After the address of welcome given by our Honorary President, Dr. L. A. Gagnier, Miss Edith Morrisette read a paper entitled "Vivons notre divons." ("Live the motto of our society," I believe is a fairly good translation.) This article was written by Sister Veronique Boutin, l'Hopital St. Croix, Drummondville, Quebec.

History of the formation of the Quebec Society was presented by Miss Rosemary O'Hagan. In presenting this subject Miss O'Hagan revived many memories of past difficulties and hard work on the part of the early organizers. Miss Ethel Pugen of Toronto wrote to Dr. W. L. Ritchie and asked what he could do by way of stimulating interest amongst his technicians. Dr. Ritchie in turn approached Miss O'Hagan who, with Miss Donalda Campbell, Sister Anne Marie, Sister Camille de Jesus, Miss Agnes Muirhead, Mr. Simpkins and Miss Jeanne Pigeon, formed the nucleus of our Society. Their enthusiasm has carried us a long way.

Mr. Donald Fisk of Queen Mary Veterans' Hospital pointed out a "Technician's Responsibilities." Good habits once acquired will carry you through the most difficult day. "The factors

of one machine cannot be used satisfactorily on another. A basic technique is necessary but the final result is the experience and ability of the technician to determine the correct factors for each individual. The difference between an amateur and professional is that an amateur can produce a good film occasionally but a professional is expected to produce good results upon request.

Mr. Paul Berty of Eastman Kodak Co., and who, I might add, seems to be a friend of everyone, showed several short films. One in a humorous fashion depicted the value of a healthy body. Another stressed the importance of routine chest x-ray on admission to hospital.

Professor Leon Lortie, University of Montreal, addressed the luncheon guests in French. His subject being "The contributions women have made to Science." One of the outstanding, of course, being Mme Eva Curie. "At one time, the mere suggestion that women participate in the study of the Sciences would have been ridiculed. To-day they have every opportunity of sharing the advantages and responsibilities."

Mr. George Jackson diagnosed film complaints for us. With the use of slides he demonstrated the effect and correction of faulty screen contact; crowding in developer and fixer; crinkle marks; a not-safe darkroom and nnmerous other types of film defects. Mr. Jackson feels the success of a good film depends on the following in the manner given: (a) Positioning, (b) Darkroom, (c) Technique. Too much importance cannot be laid upon maintaining careful handling of films.

Dr. Guillaume Gill, Radiologist, Radium Institute, discussed the properties of radium and x-ray and made the physics more understandable. "Radiotherapy is based on the perturbation of electrons of the atoms and the biological effect of radiation is thus explained."

A convincing exhibition of a method of taking a chest film following a thoracoplasty was given by Hr. Henry Meadus of the St. Agathe Sanatorium. This technique produces equal density of the lung fields.

Presentation of certificates was made by Dr. Albert Jutras of the Hotel Dieu. It was a little disturbing to see how few members came to receive them. They were very attractively tied with ribbon in our Society's colours, Blue and Gold.

Miss Joan Griffith was the afternoon chairman.

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For full details see page 51

GENERAL ELECTRIC X-RAY CORPORATION LIMITED

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After the various reports and minutes had been delivered the election of officers was held. The following are our new officers for 1950-51:

Honorary President: Dr. J. Bouchard, Royal Victoria Hospital.

President: Mr. Albert Cheffins, Queen Mary Veterans' Hospital.

Vice-President: Miss Germaine Violette, Hotel Dieu.

Secretary-Treasurer: Miss Joan Griffith, Montreal General Hospital, Central Division.

Registrar: Miss Rosina McHardy, Montreal General Hospital, Western Division.

Executive Committee:

Miss Agnes Muirhead, Montreal General Hospital, Western Division.

Miss Germaine Perry, Herbert Reddy Hospital.

Miss Madeline Archambault, Bruchesi Institute.

Provincial Director: Miss Donalda Campbell, R.N., Canadian Car and Foundry.

A small gift was presented to Miss Archambault (retiring President) on behalf of the Society, by Miss Muirhead. Thanks were expressed

for Miss Archahbault's untiring co-operation and cheery disposition throughout the past year.

The cocktail party preceding dinner was attended by many and enjoyed by all. Need I say more!

Our dinner speaker was the jovial Mr. Robert Holmes Parson of the Montreal Daily Star, who entertained us with his many happy and grave experiences as a newspaperman of two hemispheres.

And so once again we came to the end of another convention. It gives us an opportunity of meeting fellow technicians whom we may not see for another year and exchange experiences. Now we must make plans for next season. But first—HOLIDAYS please!

A special vote of thanks is extended by the members of the Quebec Society to the following firms for the entertainment which they provided so generously:

Picker X-Ray Co. of Canada.
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—ROSINA McHARDY, R.T.,
Sub-Editor.

LA SOCIETE DES TECHNICIANS EN R.X. DE LA PROVINCE DE QUEBEC

La première assemblée régulière de l'année 1950 eut lieu à l'hopital des Vétérans Chemin de la Renie Marie.

M. Cheffins présente le Dr. Adams, qui nous souhaite la plus cordiale bienvenue.

M. Brodie presente le Conférencier le Dr. Eddington, celui-ci fait l'historique des progrès de la Radiothéraphie du début a nos jours.

Miss Campbell, Directeur Provincial pour la Canadienne Societé, nous intéressa vivement par sa causerie sur les maladies industrielles d'origine pulmonaire.

M. Picard, étudiant à l'hopital St-Luc, présente un cour travail sur la Densité.

Mlle Archambault fit remarquer, que la Societé compte maintenant quinze nouveaux membres de plus.

Mlle la Présidente demande de payer la Contribution annuelle le plus tôt afin que les noms des membres soient publiés dans le Focal Spot du Printemps.

M. Cheffins demande aux étudiants de langue anglaise de préparer u travail pour l'Assemblée du 18 mars.

Mlle Archambault invite tous les membres a un Gouter offert par la Societé à la "Petite Chaumière," nous remercions Mlle Archambault, ce ce fut une réunion charmante et dés plus Joyeuse Merci.

Le 18 mars l'assemblée avait lieu à l'hopital Notre-Dame.

Mlle Louise Bergeron présente le Dr. Jean Louis Léger qui souhaite la bienvenue au nom du Dr. Brodeur absent, le conférencier nous intéressa vivement sur le sujet suivant: "Angiographie Cérébrale." Sr. Judith Marie de l'hopital Ste Justine le remercia.

M. Cheffins presente Miss Lena Freeman qui lut un travail sur la "Veinographie" Miss Eggleton remercie Miss Freeman.

Mlle Archambault fit remarquer que nous avions recu deux invitations du Dr. Phelps a tenir une assemblée régulière a Ste Agathe, nous désirons ardement aller à Ste Agathe, les Laurentides sont superbes?

La date des examens est le 5 mai.

M. Fisk, R.T., propose que l'on garde en filières les travaux des étudiants.

M. Lewis membre associé suggère de faire un peu plus de publicité sur la Société Locale?

Un excellent gouter fut servir par la Rev. Sr. Plourde Supérieure et Sr. Lemire. Nos plus sincères remerciements aux religieuses de l'hopital Notre-dame et aux personnels des Rayons-X.

Ici a l'hotel Dieu nous souhaitons "Bienvenue et Persévérancé" à Sr. Ladouceur, Sr. St. Jean, Gde. Des Lauriers étuidantes.

—ALICE PAQUIN, R.N., R.T.,
Sub-Editor.

SASKATCHEWAN SOCIETY OF X-RAY TECHNICIANS

The Saskatoon Branch February meeting was held at St. Paul's Hospital Nurses' Home, Miss May Alldred presiding. Many of our technicians did not show up but we were pleased that fifteen answered the roll call.

A very interesting lecture was given by Dr. C. K. Langford, his subject being "Trepanation Among the Incas in Peru Before the Spanish Conquest." Dr. Langford knew how to bring forth his subject in a very attractive and interesting way, and everyone was sorry to see the end after their attention had been held through such an instructive and pleasant lecture. The subject was made all the more interesting by the numerous lantern slides of the excavations, and of the different skulls found showing evidence of trepanation. The Saskatoon technicians wish to thank Dr. Langford for giving us so much of his time to make our meeting worthwhile.

A film on "Respiration" was included — a valuable bit of information on an always pertinent subject.

The lunch was provided by the hospital management and served by the House Technicians. Lively discussions took place, unnecessary to say on what subject—x-ray technicians have one subject in common and this is x-ray. The similar troubles and problems of each one can always bring a flow of discussions and controversies. The monthly meetings are getting to be more like a family reunion.

The Regina Branch took quite a deviation from the usual run of technical meetings and on February 16th met at the Queen City Skating Rink—to skate.

A really good turn-out of technicians, and astually a surprising amount of demonstrated skating talent, though the subsequent aching joints and bruised muscles in the next few days questioned the success of the evening.

After the skating the members were very pleased to be able to relax at the Grey Nuns'

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A very enjoyable evening, but equally interesting in that it started out so non-technical and ended up as always—a heated discussion on subjects pertinent to our profession. A point in favor of our winter policy to provide only for amusement at the monthly meeting,s and depend on the technicians themselves to create the technical atmosphere.

We are pleased to welcome to our Province an Albertan R.T. in Sister Helen Joseph, now at St. Michael's Hospital, Broadview. We hope Sister will enjoy her stay in Saskatchewan and that we will have the pleasure of meeting her at our next Convention.

The Executive of the Saskatchewan Society of X-Ray Technicians extends their welcome and wishes of success to the following new members:

Mr. Allan Chas. Dixon,
Union Hospital, Lashburn.

Miss Winnifred C. Hauser,
General Hospital, Moose Jaw.

Mr. John G. Logan,
Grey Nuns' Hospital, Regina.

Mis Marguerite McAvoy,
St. Paul's Hospital, Saskatoon.

Miss Gertrude A. Schmidt,
Medical Arts Clinic, Regina.

Miss Ivonne Tanguay,
St. Paul's Hospital, Saskatoon.

Mr. Lorne Winter,
General Hospital, Moose Jaw.

Our best wishes go to Miss Mary Taber, previously of Union Hospital, Rosetown, who has accepted a position on the staff of the General Hospital, Regina.

Our best wishes also to Miss Doris Hermanson, previously of City Hospital, Saskatoon, who has also accepted a position at Regina General Hospital.

Mr. Zenon Pawluik is now a technician at Union Hospital, Rosetown. Mr. Pawluik was previously at Saskatoon City Hospital Good luck to you, Zonon, we hope to hear from you sometime.

—D. PENLEY, R.T.,
Sub-Editor.

EASTERN TECHNICIANS PLEASE NOTE

A temporary position is open for June, July, August and September at the B.C. Cancer Institute. Either a therapy or diagnostic technician will be suitable. The salary is about $175.00 per month. Any technician interested in this position can obtain full particulars from Miss Dorothy Findlay, R.T., B.C. Cancer Institute, 11th Ave., and Heather St. Vancouver, B.C. This is an excellent opportunity for a person to spend the summer in Vancouver and earn money at the same time. It is also a golden chance to attend the convention.

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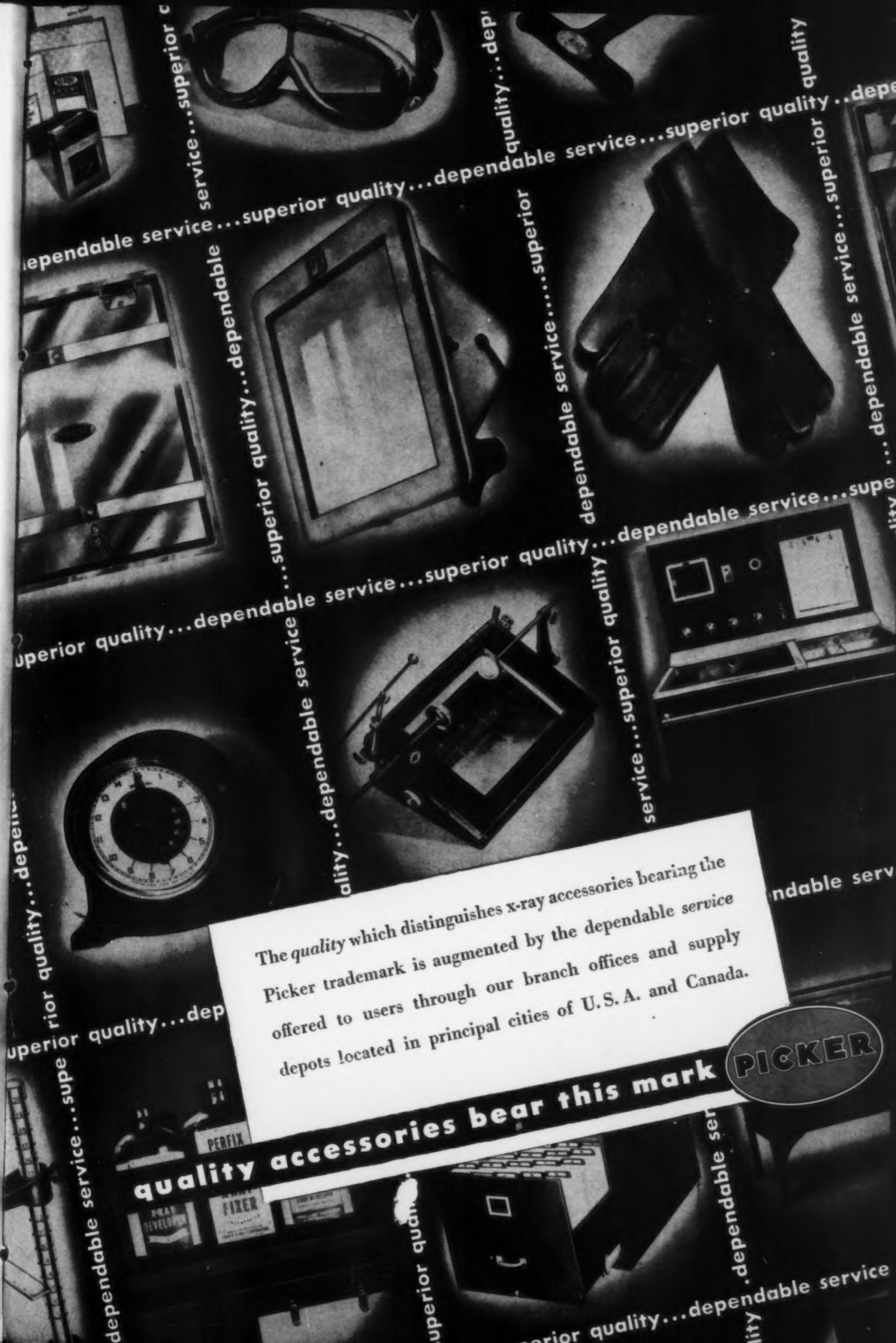
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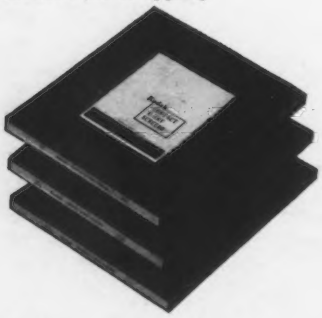

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